Genstat 64-bit Release 22.1 ( PC/Windows 11) 30 September 2022 14:56:26

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Genstat Twenty-second Edition

Genstat Procedure Library Release PL30.1

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1 SET [WORKINGDIRECTORY='C:/Users/mgr/Dropbox/Kitchen Flies 2022'; DIAGNOSTIC=messages]  
 2 "Data taken from file: '\  
 -3 C:/Users/mgr/OneDrive - University of St Andrews/Desktop/Final Multiv/Males.xlsx\  
 -4 '"  
 5 DELETE [REDEFINE=yes] \_stitle\_: TEXT \_stitle\_  
 6 READ [PRINT=\*; SETNVALUES=yes] \_stitle\_  
 10 PRINT [IPRINT=\*] \_stitle\_; JUST=left

Data imported from Excel file: C:\Users\mgr\OneDrive - University of St Andrews\Desktop\Final Multiv\Males.xlsx

on: 30-Sep-2022 14:56:31

taken from sheet "Males", cells A2:L174

11 DELETE [REDEFINE=yes] Population,Line,CCRT\_M,CSM\_M,DT\_A\_M,DW\_M,HSM\_M,LS\_M,\  
 12 SR\_M,TL\_M,Via\_NA,WA\_L\_M  
 13 UNITS [NVALUES=\*]  
 14 DELETE [REDEFINE=yes] Population  
 15 FACTOR [MODIFY=no; NVALUES=173; LEVELS=9; LABELS=!t('AK','GI','KA','MA',\  
 16 'MU','RE','UM','VA','YE'); REFERENCE=1] Population  
 17 READ Population; FREPRESENTATION=ordinal

Identifier Values Missing Levels

Population 173 0 9

23 DELETE [REDEFINE=yes] Line  
 24 TEXT [NVALUES=173] Line  
 25 READ Line

Identifier Minimum Mean Maximum Values Missing

Line 173 0

42 DELETE [REDEFINE=yes] CCRT\_M  
 43 VARIATE [NVALUES=173] CCRT\_M  
 44 READ CCRT\_M

Identifier Minimum Mean Maximum Values Missing

CCRT\_M 1322 1610 2016 173 1

74 DELETE [REDEFINE=yes] CSM\_M  
 75 VARIATE [NVALUES=173] CSM\_M  
 76 READ CSM\_M

Identifier Minimum Mean Maximum Values Missing

CSM\_M 0.7235 1.043 1.426 173 1

106 DELETE [REDEFINE=yes] DT\_A\_M  
 107 VARIATE [NVALUES=173] DT\_A\_M  
 108 READ DT\_A\_M

Identifier Minimum Mean Maximum Values Missing

DT\_A\_M 223.3 236.1 255.9 173 2

138 DELETE [REDEFINE=yes] DW\_M  
 139 VARIATE [NVALUES=173] DW\_M  
 140 READ DW\_M

Identifier Minimum Mean Maximum Values Missing

DW\_M 0.2219 0.2660 0.3114 173 4

170 DELETE [REDEFINE=yes] HSM\_M  
 171 VARIATE [NVALUES=173] HSM\_M  
 172 READ HSM\_M

Identifier Minimum Mean Maximum Values Missing

HSM\_M 198.2 323.1 444.2 173 2

202 DELETE [REDEFINE=yes] LS\_M  
 203 VARIATE [NVALUES=173] LS\_M  
 204 READ LS\_M

Identifier Minimum Mean Maximum Values Missing

LS\_M 37.69 50.92 61.75 173 2

232 DELETE [REDEFINE=yes] SR\_M  
 233 VARIATE [NVALUES=173] SR\_M  
 234 READ SR\_M

Identifier Minimum Mean Maximum Values Missing

SR\_M 49.81 67.69 96.45 173 2

264 DELETE [REDEFINE=yes] TL\_M  
 265 VARIATE [NVALUES=173] TL\_M  
 266 READ TL\_M

Identifier Minimum Mean Maximum Values Missing

TL\_M 788.9 843.6 887.7 173 38

290 DELETE [REDEFINE=yes] Via\_NA  
 291 VARIATE [NVALUES=173] Via\_NA  
 292 READ Via\_NA

Identifier Minimum Mean Maximum Values Missing

Via\_NA 0.6104 0.9568 1.251 173 1

322 DELETE [REDEFINE=yes] WA\_L\_M  
 323 VARIATE [NVALUES=173] WA\_L\_M  
 324 READ WA\_L\_M

Identifier Minimum Mean Maximum Values Missing

WA\_L\_M 2360 2480 2617 173 1

354 %PostMessage 1129; 0; 10000001 "Sheet update completed"  
 355 DELETE [REDEFINE=yes] \_corrmat  
 356 FCORRELATION [PRINT=correlations,test; METHOD=twosided; CORRELATIONS=\_corrmat] CCRT\_M,\  
 357 CSM\_M,DT\_A\_M,DW\_M,HSM\_M,LS\_M,SR\_M,TL\_M,Via\_NA,WA\_L\_M

Correlations

CCRT\_M 1 -

CSM\_M 2 0.3177 -

DT\_A\_M 3 0.0466 -0.0144 -

DW\_M 4 -0.1562 -0.1953 0.0086 -

HSM\_M 5 -0.1570 -0.3466 0.0305 0.0512 -

LS\_M 6 -0.1000 -0.1270 -0.0693 0.0557 0.2758 -

SR\_M 7 -0.0640 -0.2452 0.1387 0.5122 0.1357 0.3677

TL\_M 8 -0.2326 0.0606 0.2624 0.1407 -0.0232 -0.1970

Via\_NA 9 -0.1497 -0.3114 0.0302 0.0606 0.3712 0.4323

WA\_L\_M 10 -0.2747 -0.1729 0.2313 0.4690 -0.1434 -0.1921

1 2 3 4 5 6

SR\_M 7 -

TL\_M 8 -0.0304 -

Via\_NA 9 0.3560 -0.1568 -

WA\_L\_M 10 0.2716 0.3482 -0.0530 -

7 8 9 10

Number of observations: 134

Two-sided test of correlations different from zero

CCRT\_M 1 -

CSM\_M 2 <0.001 -

DT\_A\_M 3 0.5932 0.8687 -

DW\_M 4 0.0716 0.0237 0.9214 -

HSM\_M 5 0.0700 <0.001 0.7262 0.5565 -

LS\_M 6 0.2505 0.1437 0.4262 0.5228 0.0013

SR\_M 7 0.4628 0.0043 0.1100 <0.001 0.1178

TL\_M 8 0.0068 0.4869 0.0022 0.1050 0.7900

Via\_NA 9 0.0843 <0.001 0.7295 0.4869 <0.001

WA\_L\_M 10 0.0013 0.0458 0.0072 <0.001 0.0983

1 2 3 4 5

LS\_M 6 -

SR\_M 7 <0.001 -

TL\_M 8 0.0225 0.7273 -

Via\_NA 9 <0.001 <0.001 0.0704 -

WA\_L\_M 10 0.0262 0.0015 <0.001 0.5432 -

6 7 8 9 10

358 DELETE [REDEFINE=yes] \_partialcorrmat  
 359 PARTIALCORRELATIONS [PRINT=correlations; CORRELATIONS=\_partialcorrmat] CCRT\_M,CSM\_M,\  
 360 DT\_A\_M,DW\_M,HSM\_M,LS\_M,SR\_M,TL\_M,Via\_NA,WA\_L\_M

Partial correlations

CCRT\_M

CSM\_M 0.249

DT\_A\_M 0.154 0.001

DW\_M -0.007 -0.035 -0.183

HSM\_M -0.060 -0.279 0.076 0.088

LS\_M -0.141 0.079 -0.054 -0.034 0.116

SR\_M 0.118 -0.090 0.160 0.449 -0.046 0.323

TL\_M -0.234 0.159 0.237 0.060 0.096 -0.089 -0.065

Via\_NA -0.082 -0.146 0.040 -0.107 0.222 0.245 0.227

WA\_L\_M -0.224 -0.129 0.197 0.345 -0.222 -0.209 0.138

CCRT\_M CSM\_M DT\_A\_M DW\_M HSM\_M LS\_M SR\_M

TL\_M

Via\_NA -0.101

WA\_L\_M 0.208 -0.011

TL\_M Via\_NA WA\_L\_M

Based on 134 rows of data.

The matrix shows the partial correlation between each pair of variables, adjusting for all the other variables in the matrix.

361 DCORRELATION \_corrmat; TITLE='Correlations'  
 362 DCORRELATION \_partialcorrmat; TITLE='Partial Correlations'

